Dengue fever outbreak

This article on 'Dengue Fever Outbreak: An Analysis of the Present Situation and Comment and Observations' is by Dr. H. Karunadasa using his experience in Vietnam, Cambodia, Laos and few other countries in South East Asia and Western Pacific Region and the experience that he has

gained by working in the Health Education Bureau of the Health Ministry. This article pinpoints certain areas which he feels important in the future dengue fever control program as it seems that these areas are not receiving adequate attention by the Ministry. Any writers have contributed on the dengue fever of the following table. Only salient points are considered for the analysis of the following table.



The above analysis clearly indicates where our attention need to be focused if we are continued and escaped the

Clearly indicates where our attention need to be focused if we are really interested in wiping out this deadly health hazard. I do not wish to go into the decline to the focus of the clear but principally the continued and escaped the received has not principally earlied the continued and escaped the testination of all including the clear packing to the control have got by working in South East Asian and Western Pacific Region countries where dengue fever is prevailing.

Breeding places

In Vietnam and Cambodia where household susteen percent mosquito breeding. Intensity of reveal that root structures are responsible for about steven percent mosquito breeding. Intensity of reveal that root structures are responsible for about steven percent mosquito breeding. Intensity of the proposed professional constructions are responsible for about steven percent mosquito breeding.

They also resort to timy large the profession of clean water stagnate in trees, flowers and roof structures. One can image the the profession of clean water stagnate in trees, flowers and roof structures. One can image the the profession of the Urban Development clean the profession of the Urban Development clean of the Urban Development and the profession of the Urban Development clean of the Urban Development cle



onte to two cases of dengue in the immediate vicinity that escape reporting. This assumption which particularly prevails in rural areas of Vietnam and other countries in South Asia is a good hunch that indicates the potential danger of spread of the disease. It is not that easy for a PHI to detect the source infection.

tries in South Asia is a good hunch that indicates the potential danger of spread of the disease. It is not that easy for a PHI to detect the source infection and that a PHI to detect the source infection and that a PHI to detect the source infection and that a PHI to detect the source infection and the vicinity. We have no knowledge to what extent this has been done by Public Health Personnel in this country. If the assumption is correct the present light grow of 21,000 cases would go to about at 42,000 to some 60,000 agatements. In an outbreak asteroid in the present light prevailing and prevailing and prevailing and prevailing remaining with heavy media coverage. It is a good measure in an epidemic situation and the prevailing and the prevailing with larger and the prevailing and prevailing and the prevailing with the prevailing with larger and the prevailing that the prevailing that the prevailing with the pr

| | | contributed on the dengue fever | of the following table. | Jacoba for the analysis | The state of the s | |
|--|--|---|--|--|--|--|
| es is es ie | Variable responsible | Factors favourable for the persistence of the disease | Present control measures | Weaknesses in present control program | Strong points in program | Actions need to strengthen the program |
| g el es m u- n- co so ee- elll a- ss ss- ss- | 1. Infected mosquito - aedes Egyptai - aedes albopictus | - Breedings escaped the attention of PH personnel - Breedings exist (Governmen) institutions) but no satisfaction of the control of the cont | - Heavy media coverage urging public to wipe out all breeding places - Massa clean up campains upon the compains th | - Lack of comprehensive coverage of breeding places. - Entomological studies for vector functional specifically specifically established | Vector breeding behaviour identified Strong and Comprehensive logal coverage. Invited to a love the logal coverage of the control of the logal coverage of the coverage of th | - Vector density survey and identification of vulnerable areas. - Initiating field based studies for the effective use of the control of the control of the control of the control - Studies or exchange of findings on the possibilities of mosquito larvae developing resistance to larvicide. |
| i- is ot iy g- ii- | 2. Infected mosquito eggs | Ability to survive the infected mosquito eggs for a longer period under favourable wet conditions | No specific attention and no studies | No specific attention | No comments | Comprehensive clean up of all breeding places particularly gutters |
| ii- n- g d ic it ie | 3. Breeding places | - In spite of all intensive efforts breeding places exist. - Environmental pollution still persist | Massive clean up campaigns with media and political support. - Field based activities to wipe out breeding places. | Lack of systematic and organized approach to eliminate breeding places. (e.g. No attention to roof structures) | No comments. Breeding places continue to exist | Enforcement of law to continue irrespective of whether cases exist or not |
| d of o- a co o- e- es ed u- | 4. Dengue patients | Inefficiency of the present system (e.g. Coordination) to detect all patients - Absence of screening facilities for the suspected fever cases - Reporting failures | All Government hospital admissions are well looked after, treated but not promptly reported for investigation by PHII. Field Public Health Staff actively engaged in clean up campaigns Political involvement and good media support | Still cases attended by private medical personnel remain unreporting delays and delays in investigations causing unnecessary delays in taking preventive measures | - Prompt investigations of reported cases by PHII - Political involvement and heavy printed /electronic media support Availability of larvicide Clean up campaigns | More coordination with private medical institutions for notifications. More facilities at field level during epidemic period for screening of all fever cases with lab.tests. |
| re co | 5. Community behaviour | Sporadic interest of community members seen but there is a community member of the community of the community behaviour to function right through the year. - The present mass clean up campaigns cannot be generalized to function throughout the year. Action Plan with organized community behaviour for the current year. - Absence of an organized community behaviour for the current year. - Absence of an organized community infrastructure for the effective application of larvicide. | Good media, political and NGO support to recreate awareness in the create awareness in the condition of the condition of the condition of the community for investigation and surveillance - Investigation and surveillance of reported cases Community support on ad hoc basis | - Lack of training and knowledge in behavioural control of the con | Willingness of the community to copy and the community to copy and the community of the control of the control of the favourable attitudes towards the problem. Good awareness of the problem due to heavy printed and electronic media coverage. | What is urgently needed is to organize community group in incumbiological properties of the community of the |
| in notes | 6. Larvicide bacteria | Recently introduced. No comments since there is no surveillance system for it take off the ground effectively in Sri Lanka. | No comments. | No comments. | - Integration of Cuban experience on the basis of the report of the epidemiologists - Local discovery of BTI and intended introduction in field locations on experimental basis. | - Establishment of a comprehensive surveillance system with the cooperation of other Government Institutions - Establish organized community groups in vulnerable areas to support effective surveillance system and elimination of breeding placty and discussion of the report of the Cuban epidemiologists for implementation. |
| is is soft of r-in a a ri-in a t a t a t a t a t a t a t a t a t a | 7. Role of Health personnel | No consistent attention during other periods when no cases are reported. | - Treatment of cases by hospital health personnel reported good - Prompt investigation of reported cases by PHII was reported good - Good coordination and some continuation and the coordination of the coordination and so | Not involved in organizing organized community behaviour. Not involved in organizing a good surveillance or su | Willingness and favourable attitudes in applying control measures during the outbreak particularly by non medical personned. | More comprehensive training and knowledge training and knowledge training and knowledge community groups to support surveillance system. Develop action planning to identify the role of health personnel in major control programs. |
| a a n n n n n n n n n n n n n n n n n n | 8. Health Education and Media (print and electronic) | No Action Plan and No Health Education Plan built on that. Inconsistent approach Field based organized approach is not existing. | Active support during the outbreak of dengue fever. Effective cooperation and coordination with other agencies during the outbreak Wery resourcein and coverage particularly entire and electronic media coverage particularly national media. | No Action Plan and No Action Health Education Health Education Health Education Planning for a Major health hazard. Community organization approach to health education is not efficient enough. Media coverage would have been excellent if they were fully supported with field based programs. | Dedication of the Media for the extensive coverage. 'Dedication of Public Health Staff to control the outbreak'. | - National Action Plan and on the basis of which National Health Education Action Plan is an urgent Accessible 1 - Identify health education interventions in Action Planning process to sup active and effective surveillance system for the effective implementation of; larvicide. |